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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

A = :-	1221		-utla fila usta					
Applicant's or agent's file reference		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
		International filing date 30.10.2003	(day/month	(year)	Priority date (day/month/year) 12.11.2002			
	International Patent Classification (IPC) or both national classification and IPC A61 K7/06							
	Applicant UNILEVER PLC et al.							
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	The	se anı	nexes consist of a total of	of sheets.			·	
3.	This	repor	t contains indications re	lating to the following it	tems:			
	ı	\boxtimes	Basis of the opinion					
	11		Priority					
	Ш		Non-establishment of	opinion with regard to r	oveltv. inv	entive step a	nd Industrial applicability	
	IV		Lack of unity of inventi		,	Colop C.	The interest applicability	
	٧		Reasoned statement u	inder Rule 66.2(a)(ii) w ons supporting such st	ith regard t atement	o novelty, inv	entive step or Industrial app	licability;
	VI		Certain documents cité	ed				
	VII		Certain defects in the i	nternational applicatior	1			
	VIII		Certain observations o	n the international app	lication		•	
Date	Date of submission of the demand			Date of completion of this report				
22.0	22.03.2004			14.07.2004				
Name prelin	e and r	exami	address of the international authority:	al	Authorized Officer			
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			Giese, H	I-H No. +49 89 23	399-8488			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/12066

 Basis of the report 	rt
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages						
	1-25	5	as originally filed					
	Clai							
		ims, Numbers						
	1-14	4	as originally filed					
2.	With lang	With regard to the language , all the elements marked above were available or furnished to this Authority is language in which the international application was filed, unless otherwise indicated under this item.						
	The	ese elements were available or furnished to this Authority in the following language: , which is:						
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).						
		the language of publication of the international application (under Rule 48.3(b)).						
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).					
3.	With inte	/ith regard to any nucleotide and/or amino acid sequence disclosed in the international application, t ternational preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inte	mational application in written form.					
		filed together with the	e international application in computer readable form.					
		furnished subsequer	ntly to this Authority in written form.					
		furnished subsequer	ntly to this Authority in computer readable form.					
		The statement that to in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.					
		The statement that to listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have re	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this					
6.	Add	litional observations,	if necessary:					

Form PCT/IPEA/409 (January 2004)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/12066

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - 1. Statement

Novelty (N)

Yes: Claims

1-14

No: Claims

Inventive step (IS)

Yes: Claims

1-14

No: Claims

Industrial applicability (IA)

Yes: Claims No: Claims 1-14

No: Cla

- 2. Citations and explanations
 - see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Cited documents

1. The following documents (D) are referred to in this communication:

> D1: EP-A-0 529 883 A D2: WO 00/66081 A D3: US 6 040 282 D4: US 6 090 773

2. Document D1 discloses a shampoo comprising (a) 0,01-50% of a surfactant, (b) 0.01-10% of a cationic polymer, (c) 0,01-50% of a conditioning oil and (d) 20-99% of water. The cationic polymer is either cationic guar gum derivative or a cationic cellulose ether derivative. This piece of prior art does not reveal the parallel use of two cationic polymers with the identical base monomer and specific charge densities.

Document D2 relates to a shampoo having (a) 5-50% of a surfactant, (b) 0,02-5% of a combination of a cationic guar gum with a charge density of 0,05-0,9 meq/g and a cationic cellulose with a charge density of 0,2-0,6 meq/g, (c) 0,01-10% of a silicone conditioning agent and (d) 20-94,75% of water. This document proposes to use two different cationic polymers without giving individual weight ranges.

Document D3 describes a shampoo for styling comprising (a) 5-50% of a surfactant, 0,025-3% of a cationic deposition polymer wihcih is a combination of guar gum and cellulose, (c) 0,1-3% of a silicone conditioning agent and (d) 22-93,4% of water. This document lacks in teaching two cationic polymers with the same base monomer.

Novelty (Article 33(2) PCT)

- The present independent product claim 1 defines a hair-washing composition 3. comprising (a) 1-50% of a surfactant, (b) 0.01-0,5% of a first cationic polymer, (c) 0,01-0,4% of a second polymer, (d) more than 40% of water and (d) 0,1-10% of a discrete, dispersed droplet of conditioning oil wherein the cationic polymers have the same monomeric units and the same cationic substituents. The present independent method claim 20 defines step (a) massaging the composition into the hair, (b) rinsing and (c) drying the hair.
- 4. None of the cited prior art documents teaches that two cationic polymers with the

EXAMINATION REPORT - SEPARATE SHEET

same monomeric units are comprised in a shampoo which each have different charge densities.

Therefore, present claims 1 to 14 are considered to be novel (Article 33(2) PCT).

Inventive Step (Article 33(3) PCT)

- 5. The problem to be solved in present application was to make the hair easier to comb when wet and more manageable when dry and to provide low friction and ease of combing for dry hair (see page 1, lines 23-29). The solution proposed by the present application is the claimed specific combination of cationic polymers (see page 2, lines 11-20).
- 6. The same technical problem as defined in the present application appears to be solved by the disclosure in document D4 (see col. 3, lines 50-54). The solution proposed by D4 is to use two cationic conditioning polymers selected from (a) cationic cellulose, (b) cationic guar and (c) cationic polyacrylamide (see claim 1). This document does not propose or leads the skilled man to use two cationic polymers of the same monomeric unit with the same cationic substituents but different charge densities.

Therefore, present claims involve an inventive step (Article 33(3) PCT).